

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

October 30, 2014

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-4902320, issued to TRANS ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: FREELAND 3H

Farm Name: FREELAND, ET AL

API Well Number: 47-4902320

Permit Type: Horizontal 6A Well

Date Issued: 10/30/2014

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. The entire well pad shall be bermed so as to prevent runoff from leaving the pad during drilling and completion operations.
- 2. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 3. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 4. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 5. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 6. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 7. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 8. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 9. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 10. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

CEMENTING ADDITIVES

,		!	Produc	l propertica
Type	Product no.		Application Sele	Anti-
		· Usage Prepartie	ngestheustensbergige E.	Solubility! Specification
		White or		· · · · · · · · · · · · · · · · · · ·
	MONO H.	Cathar Cathar	_	I Salchie int Coment sharry bea
	'CQ610C Liqui	. vellow	≥180°C Setumb	•15TC and a good fluidly and h
		micod viscoss	talt wat	er water is not extended.
		liquid		
		D.y.a.	•	4 · · · · · · · · · · · · · · · · · · ·
		White or		Soluble is:
	CG610\$-	calued Cales	Starte Seturate	d cold desage, good slumy
•	P Powdar	dual yellow	talt water	r Statisty and nor
	AMPS	purpote powder		extended.
	describeshura.			
•	CG5105-D	Dry Pray	io	Pently Easy storage, long
	High purity "	•	≤150°C Seturated	- weiter
	povider 1	urixed bowqtt	salt water	flatility and not soluble
				extended.
Melti-	1	Oryši		' Using flexibly and
Coding (Cold	' CG6105-T	Water White	Siturated	Soluble int conveniently.
loss additives	Powder *	ruked	≤IEUC !	- cold starry's fluidity is
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	ga ga	ubots.	•	t extended.
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		Rint	1	'Sofuble in'
	CO3 lot Licaid	Vator Yellow	≤150°C 1813 zdt	-15°C ould Stumy's fluidity is
	, at	thred viscous	weller	good, slight extrad
		Novid	,	water .
	AMPS Dr	y&		•
1		Whiteor	•	High purity, small
		Dist	15% self	Soletie in deserte, and almos
	- • •	traifn:w -	USOC WHEE	fluiding and ships
	•	isl powder		Switze
	ipung P	1028		•
•				
:				Partly Easy storage, fong
_	web			compatibility with all
:	mix		•	Soluble in
	CPSIOS Powder		18% zeit	tes the properties of
	benbo	ss!	weter	iliaid lass controlling.
				Contest shary with it
	· - !			· le slight extended.
	, Weter	Colories		Soluble in
	CHZ (OL Liquid)		10°C 18% selt2'	C cold ·
	robuod	I liquid	water !	water •
	Cry &	•		•
	wefer			Scluble in
	CH2103-P High	White 55-FE	ot: (8% st)	High purity and low
	purity powder deal	powder '	Water	· dusayo.
	Sumon			MAKET
Maderale lamperature (eterder	,		0
	CHILIDS-D City	Cray	1894 safr	Pertly Easy Morago and
	Powder mixed	powder : 51-110	water —	lane derebility.
	42.5	-		solubie
	Dry&			
	CH2IDS-T WESTER	White	18% salı	Soletio in
	Powder mixed	15-110'	т —	Using flexibly and
	dust	power.	water	water :
	in the second of			
		Brownisti .		Safahis in
	CHITICL Liquid, West	black , 90-8501	C 18% sait -12°C	ecid ! Have cortain
	ं क्रोध्ये '	liquid	WESET	dispersion.
		•	•	Soluble far
Dak	CH410L Liquid Water	Brown 90-150°C	. 18% salt .9°C	Have certain cold
ligh temperature retere	for mixed	liquid ,	wreter	: dirpersion
		•		Water
	CH910S-D Dry	O	1002	Partly Easy storago, long
		Gudh duri 20,50	1896 salt	derability,
	Powder mixed p	owder	Metal	strongthan grow is scluble

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Attachment V - Planned Additives to be used in Fracturing or Stimulations

	Product Name	Product	Use	Chemical Name	CAS Number
				Didecyl Dimethyl Ammonium Chloride Ethanol	007173-51-1
	ALPHA 1427	Biocide	•	Glutaraldehyde (Pentanediol)	000111-30-8
				Quaternary Ammonium Compound	068424-85-1
				Water	007732-18-5
	BF-7L	Buffer		Potassium Carbonate	000584-08-7
				Choline Chloride	000067-48-1
	ClayCare	Clay Stabiliz	oer	Water	607732-18-5
1	Enzyme G-I	Breaker	,	lo Hazardous Component	s NONE
İ	ENZYME G-NE	Breaker	1	lo Hazardous Component	NONE
Ī	FRW-18	Friction Reducer	1.	etroleum Distillate lydrotreated Light	064742-47-8
ſ	2014.25		P	etroleum Distillate Bland	N/A-014
	GW-3LDF	Gel	P	olysaccharida Blend	N/A-021
r		1	- 1	ethylene Glycol	000111-46-6
	SCALETROL 720	Scale Inhibitor	E	hylene Gfycol	000107-21-1
Γ			Во	ric Acid	010043-35-3
	XLVY-32	Crosslinker	Me	thanol (Methyl Alcohol)	00006?-56-1
P	APB01 (AMMONIUM ERSUFATE BREAKER)	Breaker	Алт	imonium Persulfate	007727-64-0
	BOS (LOW PH BUFFER)	Buffer	Ace	ettc acid	000064-19-7
82	XL03 Borate XL Delayed High Temp	Crosslinker	No	Hazerdous Components	NONE
	FRVV-200	Friction Reducer	No	Hazardous Components	NONE
Н	VG01 (TURQUOISE-1 BULK)	Gelling Agent		oleum Distillate rotreated Light	J64742-47-8
	KCLS-4	Clay Stabilizer	No !	fazardous Components	NONE
	LTB-1	Breaker	Апп	nonium Persulfate	N/A
			Etha	nol	000064-17-5

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	EC6110A	Biocia	de	Glutaraldehyde (Pentanediol)		000111-30-
		İ		Quaternary Ammonium Compounds	1	N/A-063
	EC6629A	Biocid	ta .	No Hazardous Compon	ents	NONE
	WBK-133 OXIDIZE	R Breaks	<u>-</u> -	Ammonium Persulfate		007727-54-0
				Ammonium Persulfate		007727-54-0
	W8K-134	Breake	er	Crystalline Silica (Quarta Sand, Silicon Dioxide)	2	014808-60-7
	W00 604 0			Proprietary Non Hazardo	ous	N/A-229
	WCS-631LC	Clay Stabil	zer	Water	1	007732-18-5
	WFR-55LA	Friction Reducer		No Hazardous Compone	nts	NONE
	WGA-15L	Gel		Petrojeum Distillate Hydrotreated Light	\neg	064742-47-8
				Potassium Carbonate	T	000584-08-7
	W/PB-584-L	පි.ක්සි	ħ	Potassium Hydroxide	1	001310-58-3
	WXL-101LE	Corsslinke	r	No Hazardous Componen	its	NONE
	WXL-101LM	Crosslinker		Petroleum Distillate Hydrotreated Light		064742-47-8
				Vater	\top	007732-18-5
			- 1	thylene Glycol		000107-21-1
	WXL-105L	Crosslinker	В	oric Acid	1	10043-35-3
ĺ			Ε	trianolamine	1	000141-43-5
	8244 Green-Cide 25G	Biocide	Gi	utaraldehyde	1	111-30-6
į	L071 Temporary Clay Stabilizer	Clay Stabilized	Ci	olinium Chloride	1	67-43-1
	Breaker 2218			ammonium roxidisulphate	1	7727-54-0
	EB-Clean* J475 Breaker	Breaker	Die	mmonium		7727-54-0
	Friction Reducer 8315	Friction Reducer	Dis Hyd	roxidisulphate stillates (petroleum), drotreated light Aliphatic ohol Glycol Ether		4742-47-8 Proprietary
	Friction Reducer J609		Am	monium Sulfate	7	783-20-2
	Water Gelling Agent J580	Gel	Car	bohydrate Polymer	P	roprietary
	Scale Inhibitor 8317	Scale Inhibitor		odium ortho phosphate ane-1, 2-diol		301-54-9 107-21-1
	Borate Crosslinker J532		Alipl	hatic polyof Sodium		detary 1303 96-4
	Crosslinker J610	Crossinker	Alipi	natic polyol Potassium oxide	Prop	netary 1310 58-3
•			,			

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

						<u></u>	4	374
1) Well Operator	: Trans En	ergy Inc		4944815	75	Marion	Mannington	Glover Gap
				Operator I	D	County	District	Quadrangle
2) Operator's We	ell Number: <u>Fr</u>	eeland 3H		W	ell Pad	Name: Freela	and	
3) Farm Name/S	urface Owner:	Freeland E	T AL	Publi	ic Road	d Access: Cou	nty Road 2	250/4
4) Elevation, cur	rent ground:	1335'	_ Ele	evation, prop	osed p	oost-construction	n: As Bui	lt
5) Well Type ((a) Gas	■ C	oil		Unde	rground Storag	e	
	Other							
(b)If Gas Sha	allow		Dec	ер			
	Но	orizontal						
6) Existing Pad:	Yes or No Ye	S						
7) Proposed Targ	get Formation(s e 7200' 60' thi		Antici	ipated Thick	ness ar	nd Associated I	Pressure(s):	8
8) Proposed Tota	ıl Vertical Dep	th: 7,200'						
9) Formation at T	Γotal Vertical I	Depth: Marc	cellus S	Shale				
10) Proposed To	tal Measured [Depth: 13,0	00"					
11) Proposed Ho	rizontal Leg L	ength: <u>5,800</u>)'					
12) Approximate	Fresh Water S	Strata Depths	:	60', 150', 90	0'			
13) Method to De	etermine Fresh	Water Dept	hs: V	Vater Wells d	rilled in	the County, info	rmation prov	vided by Health Dept.
14) Approximate	Saltwater Dep	oths: _1525'						
15) Approximate	Coal Seam De	epths: 900'						
16) Approximate	Depth to Poss	sible Void (co	oal mi	ne, karst, otl	ner): <u>n</u>	ı/a		
17) Does Propose directly overlying				ns Yes [V	No No		
(a) If Yes, prov	ide Mine Info:	Name:	Loveri	dge				
		Depth:	900'				REC	CEIVED
		Seam:	Pittsbu	urgh			Office of	Oil and Gas
		Owner:					JUN	0 8 2014
					l	S.23-14		T. P. Marketon
						5.23-17	WV Dep	ertment of
							ivironmer	ntal Protection

18)

ТҮРЕ	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20	new	J-55	94	90'	90'	CTS
Fresh Water	13-3/8	new	J-55	54.5	1000'	1000'	CTS
Coal							
Intermediate	9-5/8	new	J-55	36	3000'	3000'	CTS
Production	5-1/2	new	P-110	20	13000'	13000'	CTS
Tubing							
Liners							

WRH 3-23-14

TYPE	Size	Wellbore	Wall	Burst Pressure	Cement Type	Cement Yield
		<u>Diameter</u>	Thickness			(cu. ft./k)
Conductor	20	26	0.438	1530	Type 1	13 cu ft/sk
Fresh Water	13-3/8	17-1/2	.38	2730	Type 1	1.25 cu ft/sk
Coal						
Intermediate	9-5/8	12-1/2	.352	3520	Type 1	1.26 cu ft/sk
Production	5-1/2	8-3/4	.361	12630	Poz H Class H	1.18 cu ft/sk
Tubing						
Liners						

PACKERS

Kind:	
Sizes:	
Depths Set:	
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WV Department of Environmental 2564 otion

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill and Complete horizontal well in the Marcellus Shale. Lateral to be approximately 5400' in length. Under no circumstance will drilling penetrate below elevation before freshwater casing is set.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Fracture 17-21 stages with Proppant: 150,000 of 100 mesh sand 80,000 of 20/40 white sand, 169,998 of 40/70 white sand. Fluid summary: 1,500 of 15% HCL, 412,665 of Slickwater I, 11,000 Slickwater II.
Max Pressure =10,000 psi
Max Rate = 100 bbl./min
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): As-Built location 8.86 acres
22) Area to be disturbed for well and only loss access road (correc). No disturbance - As Built
22) Area to be disturbed for well pad only, less access road (acres):
23) Describe centralizer placement for each casing string:
Fresh Water String - 1 centralizer every 160'
Intermediate String - 1 centralizer every 100' from 3300' to 900'
Production String - 1 centralizer every 80' from TD to above ROP (7000')
24) Describe all cement additives associated with each cement type:
Standard Type 1 cement - retarder and fluid loss (surface and interm) Type 1 = 2% CaCl ₂ + Y4# Flake - Surface Cement mixed @ 15.6 ppg CaCl ₂ , Flake (cellophane flake) Type 1 = 2% CaCl ₂ + Y4# Flake - Intermediate Cement mixed @ 15.6 ppg Class H in lateral - retarder and fluid loss and free water additive
25) Proposed borehole conditioning procedures:
Before cement casing mud will be thinned and all gas will be circulated out of the mud before cementing.
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^{*}Note: Attach additional sheets as needed.

May 22, 2014

Ms. Laura Cooper West Virginia DEP 601 57th Street Charleston, WV 25304

Re: Void Encounter

Freeland 3H and 4H

Dear Laura,

In follow up to your email dated 6/25/2012 referencing the Freeland 1H and 2H Well Permit Applications. Your email at that time noted that the locations spots in close proximity to both mined and permitted to mine areas, if encountered we will run casing no deeper than 50' beyond the void and set a basket as the ceiling and at the bottom and grout/cement, and we will notify the inspector immediately.

Once you have reviewed and would have any questions regarding this permit please feel free contact me at 304-684-7053 ext. 26 or Leslie Gearhart at ext. 32

As always thank you for your help in these matters.

Sincerely yours,

Trans Energy Incorporated

Debra A. Martin Land Administrator

DM/dm

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JUN 0 8 2014

WV Department of Environmental Protection

. CEMENTING ADDITIVES'

		!			Product	oropert		
Type	Product no.	. Ilea	ge Proper	Applice		Ant	 L	···
	• •	1 .	te trobe	40mpers	ture resistan	cefrees	Solubil lag	lty: Specification
		1	White				•	Ī
•	CG610L Liq	oid Wate			Saturate	d ¹		ini Cement slumy has
		mixe	xd viscos	•	salt wate] -12 1		sood fluidity, and it
			liquid				Water	i is not extended.
•	• • • • • • • • • • • • • • • • • • • •	Dry&	2	** - *****	. '	;		· · · · ·
	CG610S-	water					Soluble	High purity, small
	P Powder	mixe	d faint d yellov	<180°C		1	- i cold	dossge. good slumy
AN	APS .	dual	powde		selt water	•	' water	fluidity and not
quadri	polymer-	purpor	te.	•			!	extended.
	CG610S-D	_	_				Partly	Easy storage, long
	High purity	, Dry	Pray	≤180°C	Saturated	. —	water	durability good sturry
	powder	1	i powde		salt water		solubie	
Multi-	•	Dry&						ustended. Using flexibly and
functional fluid	' CG6105-T	water				ı	Soluble i	
loss additives	Powder	mixed	White	≤180°C	Saturated	! —	cold	1 slurry's fluidity is
		đusi	•	:	, sait water	!	weter	good and not
	-	tribos		:	,	1		extended.
			White or	r <u>'</u>				•
	COSTOL Liqui	Water	faint yellow	≤150°C	18% sait	معدو	Soluble in)' Slurry's fluidity is
	COVINE CAPE	mixed	viscous	2130 C	Water	-ISC	cold	good, slight extend.
		•	Hould				Weter	I
AMI	PS	Dry&			•			• • • •
turpoly	mer CG510S-P	water	White or				Soluble in	
	High purity	mixed	yeilow	≤150°C	18% salt water	_	cold	dosage, good sharry
•	powder	duel	powder		*******		' Weler	fluidity and slight outended.
•	•	perpose		•				- Contract
•							Daniela	•
•	1 .	weter	Skint	<u>.</u>			Pertly	Easy storage, long compatibility with all
:	1	mixed	yellow	•	:		i	kinds coment and it
	CF510S Powder	dual	powder	-1.00	18% salt	4	Soluble in	has the properties of
	:	purpose!	;	≤150°C	water	;	cold	fuid loss controlling.
•		. :	i	ı			Water	Coment slurry with it
			• ;		- • :		:	is slight extended.
	CH210L Liquid	Water	Colories	44 11090	18% salt ;		Soluble in	
	, Crission Enquire	mbæd	liquid	55-110°C	water	-2°C	cold	
•	· · · · · · · · · · · · · · · · · · ·	Dry&			•• •• • • • •	 -	water	
		Water				5	: ioluble in:	
	CH210S-P High. purity powder	mixed	White -	55-110°C	18% salt		cold	figh purity and low
		qual	portect .		water		water -	dosego.
Moderate temperature retar	rder !	purpose	;		, <u>.</u>		:	
	CH210S-D	Dry	Citary		18% sair		Pertly	Easy storage and
	Powder	mixed	powder	55-110℃	water	_	water +	long durability.
1	,	Dry&	•	•			soluble	* · · •
		water				S	oluble in:	
	CH210S-T Powder	mixed	White	55-110°C	18% salı	_ ~	cold	Jring flexibly and
	rv=va	dust	powder		water		water :	conveniently.
	P	шрозе			*		•	.4
		Water	rownish	,	18% selt		ai eldulo !	Have cortein
	CH3 IOL Liquid,	mixed '	black !	90-150°C	water -	2°C	cold	dispersion.
•	****		liquid				water	••••
141.1	CH4 IGL Liquid		Brown	90-150°C	18% salt	PC.	ini elduk eeld	Have certain
High temperature retarder		nixed	liquid		water		water :	dispersion.
	•	٠	÷	:	• .			esy storego, long
	CH510S-D	Dry	Gray :	90-150°C	18% selt .		Partly	durability,
	Powder n	nixed p	lowder	130 C	water		water si oluble	rengthen grow is
	-		i.		-			blenn

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WV Department of Environmental Protection

WELLBORE SCHEMATIC

Well Name:

Freeland 3H

County:

Marion

Latitude:

39.61861

Longitude:

-80.399

TVD:

7200'

TD:

13,000'

Type of Casing Conductor

<u>Size</u> 20" Footage 90'

Fresh Water Intermediate 13-3/8"

1000' 3300'

Production

9-5/8" 5-1/2"

13000'

API Number 47 -	: <u>*</u> :
Operator's Well No	, Freeland 3H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

4704902320

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Trans Energy Inc	OP Code 494481575
Watershed (HUC 10) Big Run of Pyles Fork	Quadrangle Glover Gap
Elevation 1335' County Marion	District Mannington
Do you anticipate using more than 5,000 bbls of water to complet Will a pit be used? Yes No	te the proposed well work? Yes No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number	Number) O for disposal location) Trainers and Buckeye Water Service Company will hauf to an approved water disposal facilities
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. Freshwater mud until reaching Marzellus then synthetic.
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	hetic
Additives to be used in drilling medium? None	
Drill cuttings disposal method? Leave in pit, landfill, removed of	fsite, etc. All cuttings will be hauled to approved landfill
-If left in pit and plan to solidify what medium will be us	
-Landfill or offsite name/permit number?Short Creek Landfill	
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally eapplication form and all attachments thereto and that, based obtaining the information, I believe that the information is trupenalties for submitting false information, including the possibility Company Official Signature Company Official (Typed Name) Leslie Gearhart	inia Department of Environmental Protection.—I understand that the my term or condition of the general permit and/or other applicable Office of Oil and Gas examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for e, accurate, and complete. I am aware that there are significant by of fine or imprisonment. WV Department of Environmental Protection
Company Official Title VP-Operations	
Subscribed and sworn before me this 9th day of Debra A Martin My commission expires My commission expires My commission expires	STATE OF WEST VIRGINIA STATE OF WEST VIRGINIA NOTARY PUBLIC Debra A Martin Trans Energy Incorporated 210 2nd Street 210 2nd Street St. Mary's, WV 26170 My Commission Expires Nov. 29, 2020

	Δ	s Ruilt 8 86 acres	
Proposed Revegetation Trea	atment: Acres Disturbed	Prevegetation p	Н
Lime Z	Tons/acre or to corre	ect to pH 00	
	200		
	600		
_{Mulch} 90 Bal	es	_Tons/acre	
		Seed Mixtures	
Т	emporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Meadow Mix	100	Meadow Mix	100
Oats or Rye	50	Oats or Rye	50
Attach:			
		land application (unless engineered plans in	ncluding this info
Drawing(s) of road, location provided) Photocopied section of invo	elved 7.5' topographic sheet		
Drawing(s) of road, location provided) Photocopied section of invo	olved 7.5' topographic sheet		
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Drawing(s) of road, location provided) Photocopied section of invo	Manuschb		

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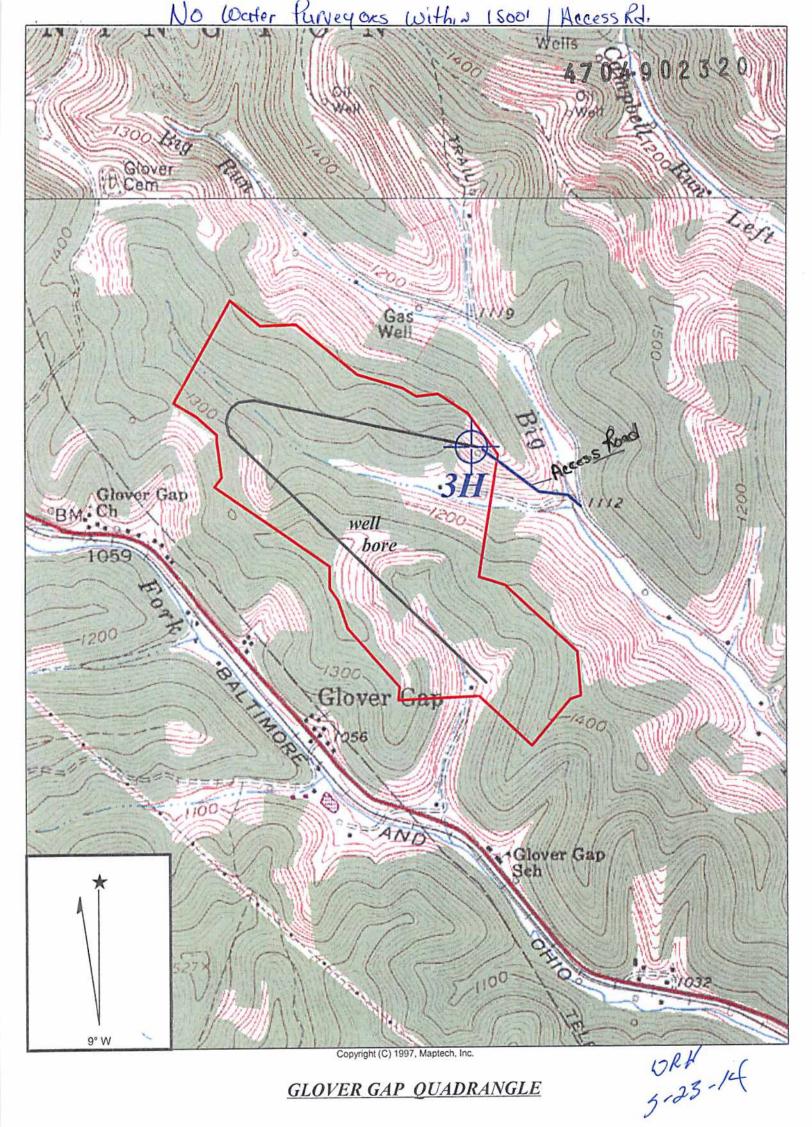
TRANS ENERGY, INC.

Well Site Safety Plan
Freeland Pad
Marion County

5/20/14 FECEIVED Office of Oil and Gas

JUN 0 3 2014

WV Department of Environmental Protection



SCALE 1" = 1000'

TRANS ENERGY, INC.

WELL: FREELAND 3H FREELAND, ET AL +/- 198 ACRE UNIT Office of Oil and Gas

MANNINGTON DISTRICT

MARION COUNTY

WEST VIRGENTA epartment of Environmental Protection

